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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/280,541      | 03/30/1999  | JAE-ICK HO           | P55657              | 5957             |

8439 7590 06/18/2003  
ROBERT E. BUSHNELL  
1522 K STREET NW  
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WASHINGTON, DC 200051202

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| EXAMINER |
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NGUYEN, KEVIN M

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2674

DATE MAILED: 06/18/2003

26

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                              | 09/280,541             | HO, JAE-ICK         |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                              | Kevin M. Nguyen        | 2674                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on interview summary 4/22/2003.

2a) This action is **FINAL**.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 1/11/2001 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

1) Notice of References Cited (PTO-892)      4) Interview Summary (PTO-413) Paper No(s). 26.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)      5) Notice of Informal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ .      6) Other: \_\_\_\_\_

### **DETAILED ACTION**

1. The amendment filed on 3/20/2003 is entered. The rejection of claims 1-20 are maintained.

#### ***Drawings***

2. The drawings are objected to because relay 20 comprising "R1 and R2" should be read --R3 and R4--. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

#### ***Specification***

3. The disclosure is objected to because of the following informalities: page 13, lines 16 "turn-off LED 200." should be read --turn-off LED 220--  
Page 11, line 4, "R3" is not shown in figure 3  
Page 10, line 2, "R1 and R2" should be read --R3 and R4--  
Appropriate correction is required.

#### ***Claim Objections***

4. Claims 1, 16, 17 and 19 are objected to because of the following informalities: "said computer" should be read --a computer--

#### ***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claims 12, 1, 5, 7, 10, 16, 17, and 19, there are the indefinite signals "outputting a signal, outputting the same voltage signal, an initial signal, the outputted voltage signal, said output signal in the interfacing section," as recited in the claimed limitation

"indicating whether said display data channel of said monitor is inputted into said computer and outputting a signal according to a result of said inputting by an interfacing section, said interfacing section outputting the same voltage signal as an initial signal, the outputted voltage signal is switched at a different time according to result of inputting the display data channel."

or

"an interface section indicating whether said display data channel of said monitor is inputted into said computer and outputting a signal according to a result of said inputting by an interfacing section, said interfacing section outputting the same voltage signal as an initial signal, the outputted voltage signal is switched at a different time according to a result of inputting the display data channel."

However, the specification discloses "As shown in FIG. 4, switching times when the input of the display data channel 22 is normal are different from that when the input of the display data channel 22 is abnormal after the display data channel 22 is inputted into the monitor 2. When the input of the display data channel 22 is normal, the

switching times between interface 200 and programmable logic controller 100 are in a range of approximately 750 milliseconds to approximately 1.5 seconds, while the input of the display data channel 22 is abnormal, the switching times are in a range of approximately 3.5 seconds to approximately 4.5 seconds. The signal outputted from interfacing section 200 is identified at first and second times by programmable logic controller 100. If a high frequency signal is output from interfacing section 200 at the same frequency as the inputted predetermined electric signal 21 from programmable logic controller 100, the input of the display data channel 22 is normal. Otherwise, if the output signal from interfacing section 200 is at a lower frequency than the inputted predetermined electric signal, the input of the display data channel 22 is abnormal," see page 14, paragraph [0039] to page 15, paragraph [0040]. This claimed limitation contains various inconsistencies and/or ambiguities so that the Examiner is unable to understand how result of which signals are correct.

As to claims 12, 16, 17 and 19, the claimed limitation recites "controlling said driving device by generating said predetermined electric signal; analyzing said output signal from said interfacing section; and determining whether said result of said inputting said display data channel is correct." This claimed limitation contains various inconsistencies and/or ambiguities so that the Examiner is unable to understand what circuit control, analyze and determine of which signals are correct. No art rejection is being made at this time due to the indefiniteness of claims.

***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-6209**. The examiner can normally be reached on MON-THU from 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reached on **703-305-4709**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kevin M. Nguyen  
Examiner  
Art Unit 2674



RICHARD HJERPE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600